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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/943,128	08/29/2001	Yoshikazu Takashima	275770US8	9308
22850	7590	12/24/2008		
OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C.			EXAMINER	
1940 DUKE STREET			JONES, HEATHER RAE	
ALEXANDRIA, VA 22314				
			ART UNIT	PAPER NUMBER
			2621	
NOTIFICATION DATE	DELIVERY MODE			
12/24/2008	ELECTRONIC			

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No. 09/943,128	Applicant(s) TAKASHIMA ET AL.
	Examiner HEATHER R. JONES	Art Unit 2621

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If no period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(o).

Status

1) Responsive to communication(s) filed on 07 November 2008.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1,2 and 7-15 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1,2 and 7-15 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 29 August 2001 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date: _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/CC)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date: _____	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on November 7, 2008 has been entered.

Response to Arguments

2. Applicant's arguments filed November 7, 2008 have been fully considered but they are not persuasive.

The Applicant argues that neither Suzuki et al. nor Mercier disclose that the apparatus discloses a demultiplexing means for demultiplexing the coded bit stream accumulated in the accumulation means and a multiplexing means for multiplexing the coded bit stream for which the control data has been rewritten. The Examiner respectfully disagrees. Mercier discloses a transmitting apparatus for converting a coded bit stream into a trick play output and sending the coded bit stream to a transmission path, comprising: accumulating means for accumulating the coded bit stream including an intra-frame coded picture, a forward predictive-coded picture, and a bidirectionally predictive-coded picture; demultiplexing means for demultiplexing the coded bit stream accumulated in the

accumulation means; content processing means for processing the coded bit stream, wherein the processing includes trick play; multiplexing means for multiplexing the coded bit stream for which the control data has been rewritten; and output means for outputting a picture whose control data has been rewritten and the formed picture in accordance with the control of the output means (Fig. 14; col. 10, line 56 – col. 11, line 18). Therefore, Mercier has been added to the previous rejection of claim 1 and the rejection is maintained.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.
4. Claims 1, 2, and 7-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki et al. (U.S. Patent 5,699,474) in view of Mercier (U.S. Patent 6,865,747).

Regarding claim 1, Suzuki et al. discloses a transmitting apparatus for converting a coded bit stream into a trick play output and sending the coded bit stream to a transmission path, comprising: accumulating means for accumulating the coded bit stream including an intra-frame coded picture, a forward predictive-coded picture, and a bidirectionally predictive-coded picture (401); output control means for controlling an output of the coded bit stream in an output mode corresponding to a designated trick play operation (406); rewriting means for

rewriting control data which specifies a displaying order of the pictures with respect to the coded bit stream (86) (col. 14, lines 15-20), and rewriting control data that specifies an accumulation amount of a virtual input buffer of a decoder in a picture header to an invalid value (col. 14, lines 45-50); picture forming means for forming a picture obtained by copying a predetermined picture (col. 12, lines 49-65); output means for outputting a picture whose control data has been rewritten and the formed picture in accordance with the control of the output means (col. 12, lines 49-65). However, Suzuki et al. fails to disclose that the apparatus comprises a demultiplexing means for demultiplexing the coded bit stream accumulated in the accumulation means and a multiplexing means for multiplexing the coded bit stream for which the control data has been rewritten.

Referring to the Mercier reference, Mercier discloses a transmitting apparatus for converting a coded bit stream into a trick play output and sending the coded bit stream to a transmission path, comprising: accumulating means for accumulating the coded bit stream including an intra-frame coded picture, a forward predictive-coded picture, and a bidirectionally predictive-coded picture; demultiplexing means for demultiplexing the coded bit stream accumulated in the accumulation means; content processing means for processing the coded bit stream, wherein the processing includes trick play; multiplexing means for multiplexing the coded bit stream for which the control data has been rewritten; and output means for outputting a picture whose control data has been rewritten

and the formed picture in accordance with the control of the output means (Fig. 14; col. 10, line 56 – col. 11, line 18)

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have included demultiplexing and multiplexing means as disclosed by Mercier in the apparatus disclosed by Suzuki et al. in order to properly process the coded bit stream to allow the coded bit stream to be subsequently outputted to an HDTV.

Regarding claim 2, Suzuki et al. in view of Mercier discloses all the limitations as previously discussed with respect to claim 1, including that the predetermined picture is the intra-frame coded picture or the forward predictive-coded picture, the copied picture is outputted as a skip P picture having a structure such that macroblocks other than macroblocks at both ends of a slice is skipped (Suzuki et al.: col. 15, line 64 – col. 16, line 9 – this is an inherent feature required by MPEG).

Regarding claim 7, Suzuki et al. discloses a transmission system of image information, comprising: accumulating means for accumulating a coded bit stream including an intra-frame coded picture, a forward predictive-coded picture, and a bidirectionally predictive-coded picture (401); output control means for controlling an output of the coded bit stream in an output mode corresponding to a designated trick play operation (406); rewriting means for rewriting control data which specifies a displaying order of the pictures with respect to the coded bit stream (86) (col. 14, lines 15-20), and rewriting control data that specifies an

accumulation amount of a virtual input buffer of a decoder in a picture header to an invalid value (col. 14, lines 45-50); picture forming means for forming a picture obtained by copying a predetermined picture (col. 12, lines 49-65); output means for outputting a picture whose control data has been rewritten and the formed picture as trick play output data in accordance with the control of the output means (col. 12, lines 49-65); a digital interface connected to the output means (col. 10, lines 29-34); and an apparatus for recording or displaying the trick play output data received through the digital interface (604) (col. 10, lines 35-42). However, Suzuki et al. fails to disclose that the apparatus comprises a demultiplexing means for demultiplexing the coded bit stream accumulated in the accumulation means and a multiplexing means for multiplexing the coded bit stream for which the control data has been rewritten.

Referring to the Mercier reference, Mercier discloses a transmitting apparatus for converting a coded bit stream into a trick play output and sending the coded bit stream to a transmission path, comprising: accumulating means for accumulating the coded bit stream including an intra-frame coded picture, a forward predictive-coded picture, and a bidirectionally predictive-coded picture; demultiplexing means for demultiplexing the coded bit stream accumulated in the accumulation means; content processing means for processing the coded bit stream, wherein the processing includes trick play; multiplexing means for multiplexing the coded bit stream for which the control data has been rewritten; and output means for outputting a picture whose control data has been rewritten

and the formed picture in accordance with the control of the output means (Fig. 14; col. 10, line 56 – col. 11, line 18)

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have included demultiplexing and multiplexing means as disclosed by Mercier in the apparatus disclosed by Suzuki et al. in order to properly process the coded bit stream to allow the coded bit stream to be subsequently outputted to an HDTV.

Regarding claim 8, this is a method claim corresponding to the apparatus claim 1. Therefore, claim 8 is analyzed and rejected as previously discussed with respect to claim 1.

Regarding claims 9 and 10, Suzuki et al. in view of Mercier discloses all the limitations as previously discussed with respect to claims 1 and 7 including that the picture formed by the image forming means represents an entire frame of the coded bit stream (Suzuki et al: Fig. 8).

Regarding claim 11, this is a method claim corresponding to the apparatus claim 9. Therefore, claim 11 is analyzed and rejected as previously discussed with respect to claim 9.

Regarding claim 12, Suzuki et al. discloses a transmitting apparatus for converting a coded bit stream into a trick play output and sending the coded bit stream to a transmission path, comprising: a memory configured to accumulate the coded bit stream including an intra-frame coded picture, a forward predictive-coded picture, and a bidirectionally predictive-coded picture (401); a controller

configured to control an output of the coded bit stream in an output mode corresponding to a designated trick play operation (406); a rewriting module configured to rewrite control data which specifies a displaying order of the pictures with respect to the coded bit stream (86) (col. 14, lines 15-20); a rewriting module configured to rewrite control data that specifies an accumulation amount of a virtual input buffer of a decoder in a picture header to an invalid value (col. 14, lines 45-50); picture forming module configured to form a picture obtained by copying a predetermined picture (col. 12, lines 49-65); and an output configured to output a picture whose control data has been rewritten and the formed picture in accordance with the control of the output means (col. 12, lines 49-65). However, Suzuki et al. fails to disclose that the apparatus comprises a demultiplexing means for demultiplexing the coded bit stream accumulated in the accumulation means and a multiplexing means for multiplexing the coded bit stream for which the control data has been rewritten.

Referring to the Mercier reference, Mercier discloses a transmitting apparatus for converting a coded bit stream into a trick play output and sending the coded bit stream to a transmission path, comprising: accumulating means for accumulating the coded bit stream including an intra-frame coded picture, a forward predictive-coded picture, and a bidirectionally predictive-coded picture; demultiplexing means for demultiplexing the coded bit stream accumulated in the accumulation means; content processing means for processing the coded bit stream, wherein the processing includes trick play; multiplexing means for

multiplexing the coded bit stream for which the control data has been rewritten; and output means for outputting a picture whose control data has been rewritten and the formed picture in accordance with the control of the output means (Fig. 14; col. 10, line 56 – col. 11, line 18)

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have included demultiplexing and multiplexing means as disclosed by Mercier in the apparatus disclosed by Suzuki et al. in order to properly process the coded bit stream to allow the coded bit stream to be subsequently outputted to an HDTV.

Regarding claims 13-15, Suzuki et al. in view of Mercier discloses all the limitations as previously discussed with respect to claims 1, 7, and 8, including that the coded bit stream is output by a slow operation by removing the bidirectionally predictive-coded picture and repeating output processes such that after the intra-frame coded picture and the forward predictive-coded picture which repetitively appear at intervals (m), the copied pictures of the number of larger than the (m) are outputted (Mercier: col. 9, line 64 – col. 10, line 54).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HEATHER R. JONES whose telephone number is (571)272-7368. The examiner can normally be reached on Mon. - Thurs.: 7:00 am - 4:30 pm, and every other Fri.: 7:00 am - 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Tran can be reached on 571-272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Heather R Jones
Examiner
Art Unit 2621

HRJ
December 17, 2008

/Thai Tran/
Supervisory Patent Examiner, Art Unit 2621